

A/J2 Info Copy Provided N/CD Info

A/J3 Info Copy Provided A/CC Info

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Simplified Processing Station Status (U)

16 APR 1980

1. The purpose of this staff summary is to provide an update on the current status of the Simplified Processing Station (SPS).

2. On 18 June 1979, the Initial Operational Test and Evaluation (IOT&E) was completed on the SPS. The results identified that significant difficulties were still resident in the software b/

(see Attachment 1). The Operations and Maintenance (O&M) contractor, IBM, under Space Division direction, developed software fixes to resolve specific causes b/ identified by analysis. This effort extended through 22 September 1979.

3. During the period from 23 September 1979 to 2 January 1980, data on hardware and software performance was collected to continually examine the system's operability and suitability. On 3 January 1980 a system review was held which showed that performance had been attained which was equal to or better than system specifications (see Attachment 2).

4. Based on this demonstrated performance, the ADCOM staff concurred with AFT&E starting Follow-on Operational Test and Evaluation (FOT&E) on 7 January 1980 (see Attachment 3). The results of the FOT&E revealed that performance characteristics b/ still exceeded both the specification and operationally acceptable limits (see Attachment 4). A key factor in this performance was the determination of two new causes b/ These were both related to the sensitivity of the software to hardware malfunctions and to processor to processor data transfer interrupts.

5. At this point, it appeared essential that significant change to the automatic operation of the software was required. On 28 February 1980, IBM was instructed to define a manual intervention capability which would support an operational goal b/ (see Attachment 5). The software changes provide

the SPS operator a thirty second delay and the same system control now available in the two large ground stations.

b1

6. The intent at this time is to collect operational performance data for at least a thirty day period to determine if the new manual interface and control of the system output will result in satisfactory performance. A successful Security Police Evaluation occurred during the 7-11 April time period. This will be followed by an evaluation of the SPS crews and operational procedures. Both of those evaluations must result in satisfactory ratings before any additional operational decisions can be made. If both evaluations are satisfactory, a compilation of the b1

report rate, system performance and the equipment operability/maintainability performance will be collected. An Operational Readiness Review (ORR) will then be scheduled to address an operational determination for the SPS.

7. The ORR will only be scheduled if the unit's capability to function as an integral part of the Defense Support Program (DSP) system appears sound. Sufficient evidence should be accumulated by May 1980 for the staff to make a logical recommendation. It is not appropriate to schedule the ORR if system data does not support the operational requirements for an operational system.

ORIGINAL SIGNED

WILLIAM E LINDEMAN, BrigGen, USAF
DCS/Plans, Policy, Programs
and Requirements

4 Atch

1. SPS IOT&E Performance
Results (S)

2. Post IOT&E SPS Performance (S)

3. ADCOM/SPS May 032100A Jan
80 (S)

4. SPS IOT&E Performance
Results (S)

5. ADCOM Required Manual SPS
Control (U)

W/D

(No record of attachments.)